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CANNED FISH & BYPRODUCTS — 1950

Department of the Interior
Washington 25, D.C.

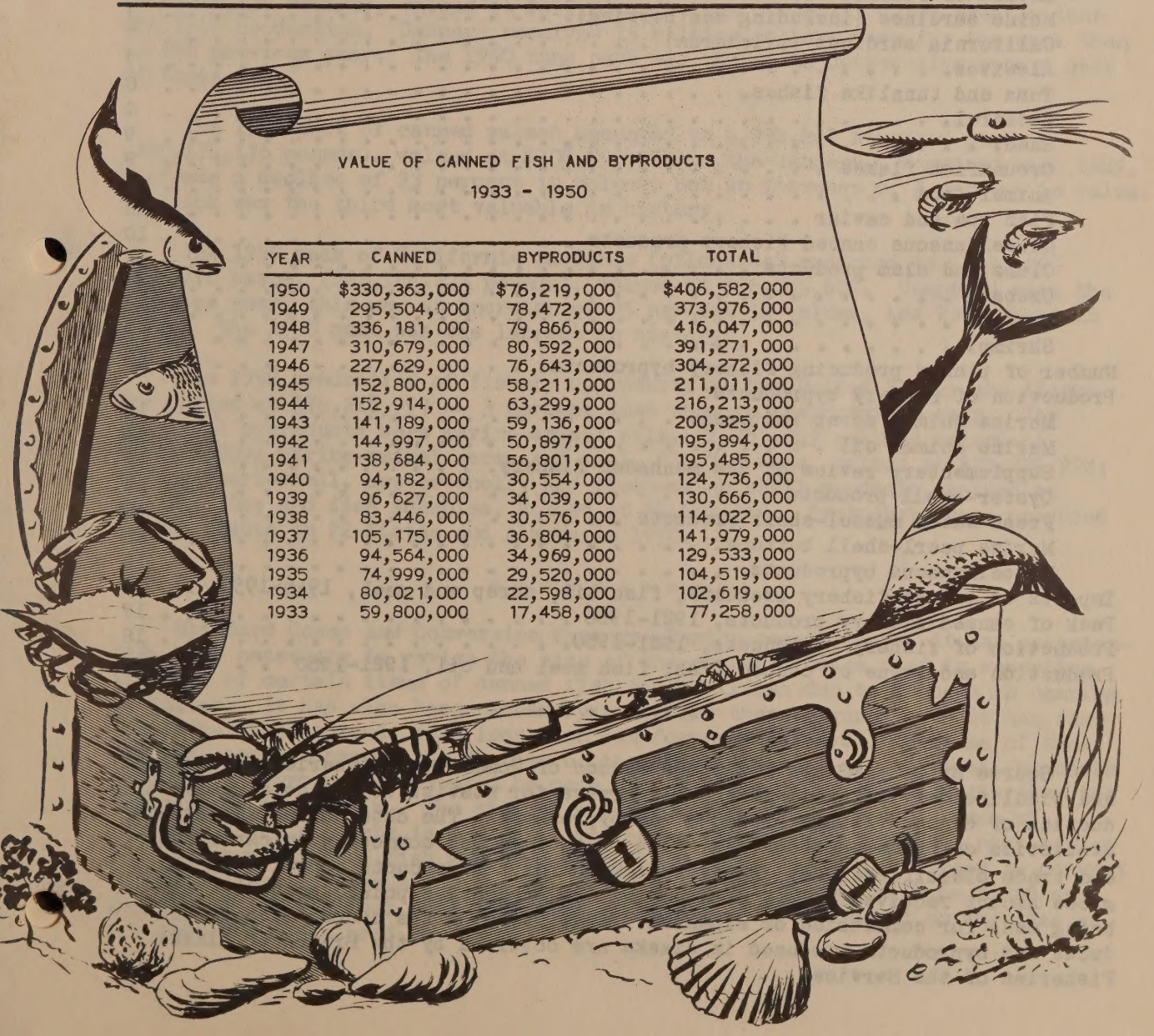
Fish and Wildlife Service
Branch of Commercial Fisheries

C.F.S. No. 671

ANNUAL SUMMARY, 1950

VALUE OF CANNED FISH AND BYPRODUCTS
1933 - 1950

YEAR	CANNED	BYPRODUCTS	TOTAL
1950	$330,363,000	$76,219,000	$406,582,000
1949	295,504,000	78,472,000	373,976,000
1948	336,181,000	79,866,000	416,047,000
1947	310,679,000	80,592,000	391,271,000
1946	227,629,000	76,643,000	304,272,000
1945	152,800,000	58,211,000	211,011,000
1944	152,914,000	63,299,000	216,213,000
1943	141,189,000	59,136,000	200,325,000
1942	144,997,000	50,897,000	195,894,000
1941	138,684,000	56,801,000	195,485,000
1940	94,182,000	30,554,000	124,736,000
1939	96,627,000	34,039,000	130,666,000
1938	83,446,000	30,576,000	114,022,000
1937	105,175,000	36,804,000	141,979,000
1936	94,564,000	34,969,000	129,533,000
1935	74,999,000	29,520,000	104,519,000
1934	80,021,000	22,598,000	102,619,000
1933	59,800,000	17,458,000	77,258,000



CANNED FISHERY PRODUCTS AND BYPRODUCTS OF THE UNITED STATES AND ALASKA, 1950

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Source of Data--Since 1921, the Branch of Commercial Fisheries of the Fish and Wildlife Service has made annual surveys for statistics of the domestic production of canned fishery products and byproducts. The data collected include statistics on the production and value of each canned commodity by can sizes, and trade classifications. The value shown for the products constitutes the gross amount received by the producer at the production point, no deductions being made for commission or expenses. Statistics on the canned fishery products and byproducts produced in Alaska are obtained by the Branch of Alaska Fisheries of the Service.

UNITED STATES PRODUCTION OF CANNED FISHERY PRODUCTS AND BYPRODUCTS - 1950

The pack of canned fishery products in the United States and Alaska in 1950 amounted to 965,357,608 pounds, valued at $330,362,853 to the packers. This was an increase of 13 percent in volume and 12 percent in value compared with the 1949 production. These increases resulted principally from larger packs of tuna and California sardines (pilchards). Canned fishery products were packed in 455 plants in 21 States and Alaska during 1950.

California led in the production of canned fishery products with a pack of 517,045,017 pounds, valued at $140,251,694. Alaska was second with 158,294,861 pounds, valued at $82,828,503. These areas accounted for 70 percent of the volume of the 1950 pack and 68 percent of its value.

The pack of tuna and tunalike fishes, which amounted to 9,016,541 cases (174,794,436 pounds), valued at $112,830,094, was 1,726,221 cases greater than the 1949 production. Canners received 15 million dollars more for the pack than in the previous year. The 1950 tuna pack was the sixth consecutive record pack of these fish.

The 1950 pack of canned salmon amounted to 4,274,462 standard cases (205,174,176 pounds), valued at $108,590,571 to the canners. Compared with 1949, this was a decline of 23 percent in volume, but an increase of 5 percent in value. The pack was the third most valuable in history.

The 1950 pack of California sardines (pilchards) amounted to 5,070,805 standard cases, (228,186,225 pounds), valued at $26,345,609. Compared with the previous year, this was an increase of 35 percent in volume, and 23 percent in value. The 1950 pack was the largest in history.

The 1950 production of fishery byproducts in the United States and Alaska was valued at $76,218,997 — 3 percent less than in the previous year. The principal byproducts were marine-animal oils, 21,763,849 gallons valued at $17,472,709; marine-animal scrap and meal, 239,713 tons, valued at $29,225,928; marine pearl-shell, oyster-shell, and fresh-water shell products, valued at $16,312,004; and fish solubles, valued at $4,461,362. Byproducts were produced in 322 plants in 22 States and Alaska in 1950.

* * * * * * * * * * *

Standard Cases and Conversion Factors—During recent years, it has occasionally been necessary to revise the size of the standard cases used in reporting the pack of certain items of canned fish and shellfish due to changes in canning practices. It has also been necessary to revise these figures when it has been found that the contents were less than was formerly believed. Because of these changes, comparisons of the "number of cases" or "pounds" of individual products reported in former years should be made with extreme care to be certain that the figures are comparable. The size of standard cases of individual items of canned fishery products is indicated at the bottom of the individual pack tables in the annual canned fish and byproducts bulletins. The factors used to convert standard cases to pounds during the period from 1921 to 1950 will be found on page 4. The historical pack data appearing on page 17 are based on the size of the standard cases used for 1950.

SUMMARY OF PRODUCTION: BY COMMODITIES, 1950

PRODUCT	NUMBER OF PLANTS	STANDARD CASES	POUNDS PER CASE	POUNDS	VALUE
CANNED PRODUCTS:					
SALMON:					
UNITED STATES	45	1,001,819	48	48,087,312	$27,187,060
ALASKA	106	3,272,643	48	157,086,864	81,403,511
TOTAL SALMON	151	4,274,462		205,174,176	108,590,571
SARDINES:					
MAINE	50	3,844,164	20.3	78,036,529	21,209,033
CALIFORNIA	48	5,070,805	45	228,186,225	26,345,609
TUNA AND TUNALIKE FISHES:					
TUNA:					
SOLID		4,153,239	21	87,218,019	58,924,886
FLAKES, CHUNKS AND GRATED		4,791,359	18	86,244,462	53,211,477
TOTAL TUNA	54	8,944,598		173,462,481	112,136,363
TUNALIKE FISHES:					
SOLID		12,327	21	258,867	114,686
FLAKES, CHUNKS AND GRATED		59,616	18	1,073,088	579,045
TOTAL TUNALIKE FISHES	17	71,943		1,331,955	693,731
TOTAL TUNA AND TUNALIKE FISHES	54	9,016,541		174,794,436	112,830,094
ALEWIVES	12	69,568	45	3,130,560	316,993
MACKEREL	57	1,457,048	45	65,567,160	7,491,816
SALMON, SMOKED	5	282	48	13,536	11,000
SHAD:					
NATURAL	6	14,049	45	632,205	89,851
SMOKED	4	489	48	23,472	13,236
STURGEON, SMOKED	5	256	48	12,288	13,880
FISH ANIMAL FOOD	18	2,721,393	48	130,626,864	13,870,870
FISH CAKES	5	106,886	48	5,130,528	1,260,069
FISH FLAKES, GROUND FISH	6	18,490	42	776,580	289,630
FISH PASTE AND SPREAD	3	9,956	48	477,888	193,347
FISH, MISCELLANEOUS	8	79,492	48	3,815,616	874,179
ROE AND CAVIAR	49	70,382	48	3,378,336	1,886,959
TOTAL FISH		26,754,263		899,776,399	295,287,137
CLAM PRODUCTS:					
WHOLE AND MINCED	42	446,494	15	1/6,697,410	4,381,938
CHOWDER	10	1,029,889	30	1/30,896,670	6,320,773
JUICE, BROTH AND NECTAR	13	42,336	30	1/1,270,080	137,178
TOTAL CLAM PRODUCTS	48	1,518,719		38,864,160	10,839,889
CRAB MEAT, NATURAL	59	137,490	19.5	2,681,055	3,121,269
CRABS, MISCELLANEOUS PREPARATIONS	11	3,092	48	148,416	93,444
LOBSTER SOUPS AND STEWS	3	4,653	48	223,344	101,910
OYSTERS:					
NATURAL	57	492,390	14	2/6,893,460	7,096,235
SMOKED	10	2,104	48	100,992	190,245
SOUP, STEW AND OTHER SPECIALTIES	14	4,206	48	201,888	76,351
SHRIMP:					
WET PACK	51	786,506	15	2/11,797,590	12,775,619
MISCELLANEOUS SPECIALTIES	13	6,418	48	308,064	140,778
SQUID	7	60,310	48	2,894,880	250,056
TERRAPIN AND TURTLE MEAT, SOUPS AND STEWS	8	25,074	48	1,203,552	279,674
MISCELLANEOUS SHELLFISH SPECIALTIES	12	5,496	48	263,808	110,236
TOTAL SHELLFISH		3,046,458		65,581,209	35,075,716
TOTAL CANNED FISH AND SHELLFISH	455	29,800,721		965,357,608	330,362,853
		UNIT		QUANTITY	VALUE
BYPRODUCTS:					
MARINE-ANIMAL SCRAP AND MEAL	225	TONS		239,713	$29,225,928
MARINE-ANIMAL OILS:					
BODY OIL	160	GALLONS		21,432,592	14,041,619
LIVER AND VISCERA OIL	18	DO		331,257	3,431,090
OYSTER-SHELL PRODUCTS	22	TONS		399,375	2,946,453
FRESH WATER MUSSEL-SHELL PRODUCTS	15	-		-	4,126,533
MARINE PEARL-SHELL BUTTONS	24	GROSS		5,803,641	9,239,018
LIQUID GLUE	5	GALLONS		168,136	357,477
FISH SOLUBLES	34	POUNDS		103,726,086	4,461,362
MISCELLANEOUS BYPRODUCTS	16	-		-	8,389,517
TOTAL BYPRODUCTS	322	-			76,218,997
GRAND TOTAL	3/710	-			406,581,850

1/ "CUT OUT" OR "DRAINED" WEIGHTS OF CAN CONTENTS ARE GIVEN FOR WHOLE OR MINCED CLAMS, AND THE GROSS CAN CONTENTS FOR OTHER CLAM PRODUCTS.
2/ DRAINED WEIGHT.
3/ EXCLUSIVE OF DUPLICATION.
NOTE:--LISTS OF CANNERS AND MANUFACTURERS OF FISHERY BYPRODUCTS BY INDIVIDUAL COMMODITIES MAY BE OBTAINED FROM THE FISH AND WILDLIFE SERVICE, WASHINGTON 25, D. C.

SUMMARY OF PRODUCTION: BY STATES, 1950

STATE	CANNED		BYPRODUCTS	TOTAL
	POUNDS	VALUE	VALUE	VALUE
MAINE	119,853,307	$28,507,594	$4,591,582	$33,099,176
MASSACHUSETTS, CONNECTICUT, RHODE ISLAND	42,108,843	5,256,107	8,376,075	13,632,182
NEW YORK	2,941,239	1,555,245	4,283,268	5,838,513
NEW JERSEY, PENNSYLVANIA, DELAWARE	24,441,945	5,692,512	9,275,109	14,967,621
MARYLAND	4,379,391	1,009,223	2,858,282	3,867,505
VIRGINIA	3,626,775	553,584	3,614,098	4,167,682
NORTH CAROLINA	775,130	629,809	2,545,895	3,175,704
SOUTH CAROLINA, GEORGIA	1,867,266	1,985,503	42,991	2,028,494
FLORIDA, ALABAMA	1,112,392	1,215,943	799,506	2,015,449
MISSISSIPPI	4,213,318	4,737,832	1,659,835	6,397,667
LOUISIANA	10,922,250	11,305,234	5,617,831	16,923,065
TEXAS	-	-	1,391,925	1,391,925
OHIO, WISCONSIN	1,049,856	212,754	-	212,754
MINNESOTA	-	-	16,228	16,228
MISSOURI, IOWA	-	-	3,895,801	3,895,801
WASHINGTON	46,273,455	25,370,759	1,844,388	27,215,147
OREGON	26,452,563	19,250,557	263,225	19,513,782
CALIFORNIA	517,045,017	140,251,694	21,201,841	161,453,535
ALASKA	158,294,861	82,828,503	3,941,117	86,769,620
TOTAL	965,357,608	330,362,853	76,218,997	406,581,850

FACTORS USED TO CONVERT STANDARD CASES TO POUNDS

PRODUCT	PRIOR TO 1938	1939 AND 1940	1941	1942	1943	1944 TO 1947	1948 TO 1950
	POUNDS PER CASE	POUNDS PER CASE	POUNDS PER CASE	POUNDS PER CASE	POUNDS PER CASE	POUNDS PER CASE	POUNDS PER CASE
SARDINES:							
MAINE	25	25	25	20.3	20.3	20.3	20.3
CALIFORNIA	48	48	48	45	45	45	45
TUNA AND TUNALIKE FISHES:							
SOLID	24	24	21	22.5	22.5	21	21
FLAKES	24	24	21	18	18	18	18
MACKEREL	48	48	48	45	45	45	45
ALEWIVES	48	48	48	48	45	45	45
SHAD	48	48	48	48	48	45	45
FISH FLAKES	48	48	48	48	48	42	42
OYSTERS	15	15	15	15	22.5	22.5	14
SHRIMP, WET PACK	17.25	17.25	17.25	21	21	21	15
CLAM PRODUCTS:							
WHOLE AND MINCED	15	15	15	15	15	15	15
JUICE, CHOWDER, BROTH, ETC	30	30	30	30	30	30	30
CRABS	48	39	39	39	39	39	19.5
ALL OTHER	48	48	48	48	48	48	48

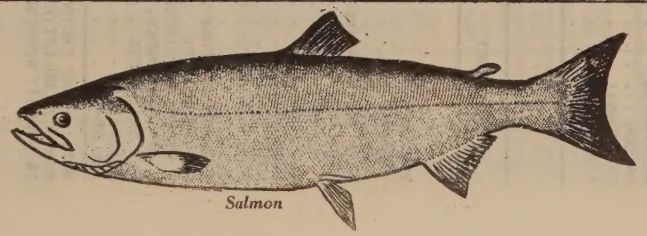
NOTE:-- THE FACTORS LISTED ABOVE WERE USED IN CONVERTING THE STANDARD CASES REPORTED IN THE CANNED FISHERY PRODUCTS BULLETINS FOR THE YEARS INDICATED. THE CASES SHOWN FOR ALL YEARS LISTED IN THE HISTORICAL SECTION ON PAGE 17 REPRESENT THE SAME SIZED CASES REPORTED FOR 1950.

PLANTS ENGAGED IN THE PRODUCTION OF CANNED FISHERY PRODUCTS AND BYPRODUCTS, 1950

STATE	CANNED PRODUCTS	BYPRODUCTS	TOTAL PLANTS, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER
NEW ENGLAND:			
MAINE	57	17	68
MASSACHUSETTS	12	17	27
CONNECTICUT	1	4	4
RHODE ISLAND	1	-	1
TOTAL	71	38	100
MIDDLE ATLANTIC:			
NEW YORK	8	8	16
NEW JERSEY	4	19	23
PENNSYLVANIA	1	6	7
DELAWARE	-	2	2
TOTAL	13	35	48
CHESAPEAKE BAY:			
MARYLAND	8	7	14
VIRGINIA	14	15	27
TOTAL	22	22	41
S. ATLANTIC & GULF			
NORTH CAROLINA	12	20	30
SOUTH CAROLINA	6	2	7
GEORGIA	1	1	2
FLORIDA	1	5	6
ALABAMA	2	-	2
S. ATLANTIC AND GULF - CONT'D.			
MISSISSIPPI	19	5	24
LOUISIANA	35	38	71
TEXAS	-	6	6
TOTAL	76	77	148
GREAT LAKES AND MISS. RIVER:			
OHIO	1	-	1
WISCONSIN	2	-	2
MINNESOTA	-	5	5
MISSOURI	-	1	1
IOWA	-	11	11
TOTAL	3	17	20
PACIFIC COAST:			
WASHINGTON	60	13	71
OREGON	27	7	32
CALIFORNIA	60	96	112
TOTAL	147	116	215
ALASKA	123	17	138
GRAND TOTAL	455	322	710

PACK OF CANNED SALMON: STANDARD CASES, 1950

SPECIES AND CAN SIZE	ALASKA							
	SOUTHEASTERN		CENTRAL		WESTERN		TOTAL	
	CASES	VALUE	CASES	VALUE	CASES	VALUE	CASES	VALUE
CHINOOK OR KING:								
1-POUND TALL . . .	442	$11,075	27,590	$728,212	2,217	$55,399	30,249	$794,686
1-POUND FLAT . . .	-	-	512	15,871	-	-	512	15,871
1/2-POUND FLAT . .	24	973	12,110	370,508	11,158	360,671	23,292	732,152
TOTAL.	466	12,048	40,212	1,114,591	13,375	416,070	54,053	1,542,709
CHUM OR KETA:								
1-POUND TALL . . .	480,777	9,347,250	222,653	4,260,351	34,630	635,265	738,060	14,242,866
1-POUND FLAT . . .	-	-	464	11,450	-	-	464	11,450
1/2-POUND FLAT . .	19,645	486,574	19,184	461,511	426	9,901	39,255	957,986
TOTAL.	500,422	9,833,824	242,301	4,733,312	35,056	645,166	777,779	15,212,302
PINK:								
1-POUND TALL . . .	490,743	11,493,953	518,235	11,626,358	1,609	34,864	1,010,587	23,155,175
1/2-POUND FLAT . .	44,919	1,383,906	40,028	1,124,249	-	-	84,947	2,508,155
TOTAL.	535,662	12,877,859	558,263	12,750,607	1,609	34,864	1,095,534	25,663,330
RED OR SOCKEYE:								
1-POUND TALL . . .	34,985	934,047	356,860	10,373,115	576,828	16,306,032	968,673	27,613,194
1-POUND FLAT . . .	-	-	29,529	905,675	-	-	29,529	905,675
1/2 POUND FLAT . .	14,490	511,145	127,596	4,342,553	13,220	473,295	155,306	5,326,993
TOTAL.	49,475	1,445,192	513,985	15,621,343	590,048	16,779,327	1,153,508	33,845,862
SILVER OR COHO:								
1-POUND TALL . . .	72,280	1,871,877	59,375	1,505,632	6,842	159,858	138,497	3,537,367
1-POUND FLAT . . .	-	-	670	18,760	-	-	670	18,760
1/2-POUND FLAT . .	44,064	1,357,863	8,188	215,305	82	2,539	52,334	1,575,707
TOTAL.	116,344	3,229,740	68,233	1,739,697	6,924	162,397	191,501	5,131,834
STEELHEAD:								
1-POUND TALL . . .	94	2,064	-	-	-	-	94	2,064
1/2-POUND FLAT . .	-	-	174	5,410	-	-	174	5,410
TOTAL.	94	2,064	174	5,410	-	-	268	7,474
GRAND TOTAL. .	1,202,463	27,400,727	1,423,158	35,964,960	647,012	18,037,824	3,272,643	81,403,511



Salmon

PACK OF CANNED SALMON: STANDARD CASES, 1950 - Continued

SPECIES AND CAN SIZE	UNITED STATES						GRAND TOTAL, UNITED STATES AND ALASKA	
	WASHINGTON		OREGON 1/		UNITED STATES TOTAL			
	CASES	VALUE	CASES	VALUE	CASES	VALUE	CASES	VALUE
CHINOOK OR KING:								
1-POUND TALL	7,560	$149,238	8,315	$202,127	15,875	$351,365	46,124	$1,146,051
1-POUND FLAT	-	-	2,493	91,256	2,493	91,256	3,005	107,127
1/2-POUND FLAT	17,541	549,822	108,165	4,055,245	125,706	4,605,067	148,998	5,337,219
1/4-POUND FLAT	-	-	7,453	325,630	7,453	325,630	7,453	325,630
OTHER	401	9,502	-	-	401	9,502	401	9,502
TOTAL	25,502	708,562	126,426	4,674,258	151,928	5,382,820	205,981	6,925,529
CHUM OR KETA:								
1-POUND TALL	422,006	8,172,966	7,351	132,211	429,357	8,305,177	1,167,417	22,548,043
1-POUND FLAT	-	-	-	-	-	-	464	11,450
1/2-POUND FLAT	78,662	1,926,259	2,993	70,950	81,655	1,997,209	120,910	2,955,195
1/4-POUND FLAT	270	8,262	-	-	270	8,262	270	8,262
OTHER	28,700	950,152	-	-	28,700	950,152	28,700	950,152
TOTAL	529,638	11,057,639	10,344	203,161	539,982	11,260,800	1,317,761	26,473,102
PINK:								
1-POUND TALL	246	5,461	-	-	246	5,461	1,010,833	23,160,636
1/2-POUND FLAT	2,030	56,372	-	-	2,030	56,372	86,977	2,564,527
OTHER	1	22	-	-	1	22	1	22
TOTAL	2,277	61,855	-	-	2,277	61,855	1,097,811	25,725,185
RED OR SOCKEYE:								
1-POUND TALL	4,481	145,400	-	-	4,481	145,400	973,154	27,758,594
1-POUND FLAT	-	-	-	-	-	-	29,529	905,675
1/2-POUND FLAT	124,270	4,802,737	1,127	44,098	125,397	4,846,835	280,703	10,173,828
1/4-POUND FLAT	5,261	246,907	1,027	49,413	6,288	296,320	6,288	296,320
OTHER	575	19,493	-	-	575	19,493	575	19,493
TOTAL	134,587	5,214,537	2,154	93,511	136,741	5,308,048	1,290,249	39,153,910
SILVER:								
1-POUND TALL	26,304	671,334	192	4,308	26,496	675,642	164,993	4,213,009
1-POUND FLAT	-	-	-	-	-	-	670	18,760
1/2-POUND FLAT	90,423	2,699,660	18,399	566,962	108,822	3,266,622	161,156	4,842,329
1/4-POUND FLAT	9,049	309,706	10,313	382,804	19,362	692,510	19,362	692,510
OTHER	5,945	177,933	-	-	5,945	177,933	5,945	177,933
TOTAL	131,721	3,858,633	28,904	954,074	160,625	4,812,707	352,126	9,944,541
STEELHEAD:								
1-POUND TALL	-	-	-	-	-	-	94	2,064
1/2-POUND FLAT	-	-	5,913	187,253	5,913	187,253	6,087	192,663
1/4-POUND FLAT	-	-	4,353	173,577	4,353	173,577	4,353	173,577
TOTAL	-	-	10,266	360,830	10,266	360,830	10,534	368,304
GRAND TOTAL	823,725	20,901,226	178,094	6,285,834	1,001,819	27,187,060	4,274,462	108,590,571

1/ INCLUDES A SMALL PACK IN CALIFORNIA.

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZED CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT 1-POUND CANS, EACH CONTAINING 16 OUNCES OF SALMON. SALMON WERE CANNED IN 31 PLANTS IN WASHINGTON, 13 IN OREGON, 1 IN CALIFORNIA, AND 106 IN ALASKA.

SUPPLEMENTARY REVIEW OF THE PACIFIC COAST STATES SALMON PACK, 1950
BY DISTRICTS - STANDARD CASES

SPECIES	PUGET SOUND		COLUMBIA RIVER		COASTAL		TOTAL	
	CASES	VALUE	CASES	VALUE	CASES	VALUE	CASES	VALUE
CHINOOK OR KING. . . .	8,215	$191,712	136,635	$4,964,201	1/7,078	$226,907	151,928	$5,382,820
CHUM OR KETA	512,997	10,752,172	12,952	234,457	14,033	274,171	539,982	11,260,800
PINK	2,277	61,855	-	-	-	-	2,277	61,855
RED OR SOCKEYE	128,385	4,984,208	3,630	146,687	4,726	177,153	136,741	5,308,048
SILVER OR COHO	116,655	3,454,279	29,507	939,296	14,463	419,132	160,625	4,812,707
STEELHEAD.	-	-	10,266	360,830	-	-	10,266	360,830
TOTAL.	768,529	19,444,226	192,990	6,645,471	40,300	1,097,363	1,001,819	27,187,060

1/ INCLUDES THE PRODUCTION OF ONE CALIFORNIA PLANT.

PACK OF MAINE SARDINES (INCLUDING SEA HERRING), 1950

STYLE OF PACK	STANDARD CASES	VALUE	CAN AND CASE SIZES	ACTUAL CASES	VALUE
NATURAL.	36,408	$85,860	3-1/4 OUNCES NET (100 CANS) . . .	3,721,403	$20,850,436
IN SOYBEAN OR OTHER VEGETABLE OIL.	3,354,642	18,201,996	9-OUNCES NET (48 CANS).	19,137	96,351
IN MUSTARD SAUCE . . .	293,016	1,560,641	15-OUNCES NET (48 CANS)	37,356	213,916
IN TOMATO SAUCE. . . .	49,397	193,465	OTHER SIZES (CONVERTED TO 3-1/4 OUNCES NET) (100 CANS) . .	14,567	48,330
IN OLIVE OIL	15,681	152,606	TOTAL	3,792,463	21,209,033
OTHER 1/	95,020	1,014,465			
TOTAL.	3,844,164	21,209,033			

1/ INCLUDES SPECIAL PACKS OF SARDINES (INCLUDING SEA HERRING) IN COTTONSEED OIL, IN PEANUT OIL, SMOKED IN OIL, AND SPICED IN SOYA OIL.

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZED CASES CONVERTED TO THE UNIFORM BASIS OF ONE HUNDRED 1/4 OIL CANS (3-1/4 OUNCES NET) TO THE CASE. SARDINES (INCLUDING SEA HERRING) WERE CANNED IN 47 PLANTS IN MAINE AND 3 IN MASSACHUSETTS.

PACK OF CALIFORNIA SARDINES (PILCHARDS), 1950

STYLE OF PACK	STANDARD CASES	VALUE	CAN AND CASE SIZES	ACTUAL CASES	VALUE
NATURAL, WITHOUT SAUCE OR OIL	2,273,804	$9,319,919	1-POUND CANS:		
IN TOMATO SAUCE. . . .	2,590,198	15,754,851	15 OUNCES NET, OVAL (48 CANS) .	1,971,723	$11,481,686
IN MUSTARD SAUCE . . .	163,770	873,729	15 OUNCES NET, TALL (48 CANS) .	2,462,039	9,673,563
OTHER 1/	43,033	397,110	1/2-POUND CAN,		
TOTAL.	5,070,805	26,345,609	8 OUNCES NET, (48 CANS)	509,963	2,030,192
			5 OUNCES NET, (100 CANS). . . .	539,784	3,120,341
			NO. 10 CAN - 7 POUNDS NET, (6 CANS)	7,344	27,950
			OTHER SIZES, (CONVERTED TO 15 OUNCES NET, (48 CANS). . . .	357	11,877
			TOTAL	5,491,210	26,345,609

1/ INCLUDES SPECIAL PACKS OF SARDINES (PILCHARDS) IN SOYBEAN OIL; IN TOMATO SAUCE AND OLIVE OIL, AND IN HOT SAUCE; FILLETS WITHOUT SAUCE OR OIL AND FILLETS IN SOYBEAN OIL; SKINLESS AND BONELESS IN OLIVE OIL.

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZED CASES CONVERTED TO THE UNIFORM BASIS OF FORTY-EIGHT 1-POUND OVAL CANS (15 OUNCES NET). SARDINES (PILCHARDS) WERE CANNED IN 48 PLANTS IN CALIFORNIA.

PACK OF CANNED ALEWIVES: STANDARD CASES, 1950

STATE	CASES	VALUE
MARYLAND	29,325	$155,156
VIRGINIA	40,243	161,837
TOTAL.	69,568	316,993

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZED CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT CANS OF 15 OUNCES EACH. PRACTICALLY THE ENTIRE PACK WAS CANNED IN 15 OUNCE CANS. ALEWIVES WERE CANNED IN 3 PLANTS IN MARYLAND AND 9 PLANTS IN VIRGINIA..

PACK OF CANNED TUNA AND TUNALIKE FISHES: STANDARD CASES, 1950

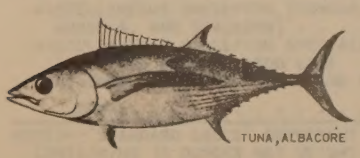
SPECIES	CALIFORNIA		WASHINGTON AND OREGON		ATLANTIC COAST		TOTAL	
	CASES	VALUE	CASES	VALUE	CASES	VALUE	CASES	VALUE
TUNA:								
ALBACORE:								
SOLID.	1,081,165	$16,131,518	459,657	$7,297,468	-	-	1,540,822	$23,428,986
FLAKES & CHUNKS. .	333,029	3,684,396	179,991	1,764,572	-	-	513,020	5,448,968
TOTAL.	1,414,194	19,815,914	639,648	9,062,040	-	-	2,053,842	28,877,954
YELLOWFIN:								
SOLID.	1,560,355	20,902,501	153,560	2,299,788	-	-	1,713,915	23,202,289
FLAKES & CHUNKS. .	2,410,128	26,462,366	121,303	1,561,151	-	-	2,531,431	28,023,517
TOTAL.	3,970,483	47,364,867	274,863	3,860,939	-	-	4,245,346	51,225,806
BLUEFIN:								
SOLID.	11,668	141,685	(1)	(1)	-	-	1/11,668	1/141,685
FLAKES & CHUNKS. .	39,722	422,475	(1)	(1)	-	-	1/39,722	1/422,475
TOTAL.	51,390	564,160	(1)	(1)	-	-	1/51,390	1/564,160
SKIPJACK:								
SOLID.	612,418	8,307,344	1/19,382	1/253,857	-	-	1/631,800	1/8,561,201
FLAKES & CHUNKS. .	1,606,859	18,189,112	1/23,692	1/282,086	-	-	1/1,630,551	1/18,471,198
TOTAL.	2,219,277	26,496,456	1/43,074	1/535,943	-	-	1/2,262,351	1/27,032,399
TONNO, SOLID	244,610	3,469,125	-	-	-	-	244,610	3,469,125
MISCELLANEOUS:								
SOLID.	-	-	-	-	2/10,424	2/$121,600	2/10,424	2/121,600
FLAKES & CHUNKS. .	-	-	-	-	2/76,635	2/845,319	2/76,635	2/845,319
TOTAL.	-	-	-	-	2/87,059	2/966,919	2/87,059	2/966,919
TOTAL TUNA . . .	7,899,954	97,710,522	957,585	13,458,922	87,059	966,919	8,944,598	112,136,363
TUNALIKE FISHES:								
BONITO:								
SOLID.	1,299	13,059	-	-	-	-	1,299	13,059
FLAKES & CHUNKS. .	11,652	109,352	-	-	-	-	11,652	109,352
TOTAL.	12,951	122,411	-	-	-	-	12,951	122,411
YELLOWTAIL:								
SOLID.	11,028	101,627	-	-	-	-	11,028	101,627
FLAKES & CHUNKS. .	47,964	469,693	-	-	-	-	47,964	469,693
TOTAL.	58,992	571,320	-	-	-	-	58,992	571,320
TOTAL TUNALIKE FISHES	71,943	693,731	-	-	-	-	71,943	693,731
GRAND TOTAL TUNA AND TUNALIKE FISHES	7,971,897	98,404,253	957,585	13,458,922	87,059	966,919	9,016,541	112,830,094

1/ A SMALL PRODUCTION OF BLUEFIN HAS BEEN INCLUDED WITH THE SKIPJACK PRODUCTION.
2/ INCLUDES PACKS OF ALBACORE, LITTLE, BLUEFIN, AND YELLOWFIN TUNA.

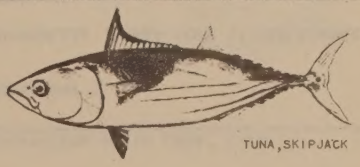
NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZED CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT NO. 1/2 TUNA CANS TO THE CASE, EACH CAN CONTAINING 7 OUNCES NET WEIGHT OF SOLID MEAT OR 6 OUNCES NET WEIGHT OF FLAKES, CHUNKS, OR GRATED. THE TOTAL PACK IN WASHINGTON AMOUNTED TO 81,728 STANDARD CASES OF SOLID PACK, VALUED AT $1,161,414 AND 41,716 STANDARD CASES OF FLAKES, CHUNKS, AND GRATED VALUED AT $382,526; WHILE THAT IN OREGON TOTALED 550,871 STANDARD CASES OF SOLID PACK, VALUED AT $8,689,699 AND 283,270 STANDARD CASES OF FLAKES, CHUNKS, AND GRATED, VALUED AT $3,225,283. DIETETIC AND BABY FOOD TUNA PACKS ARE INCLUDED IN THESE TOTALS. TUNA AND TUNALIKE FISHES WERE CANNED IN 27 PLANTS IN CALIFORNIA, 11 IN OREGON, 9 IN WASHINGTON, 2 PLANTS EACH IN MAINE AND MASSACHUSETTS AND 1 PLANT EACH IN NEW YORK, MARYLAND AND SOUTH CAROLINA.

SUPPLEMENTARY REVIEW OF THE PACK OF TUNA AND TUNALIKE FISHES BY CAN SIZES, 1950

CAN AND CASE SIZES		ACTUAL CASES	VALUE
4-POUNDS.	(12 CANS)	31,115	$828,352
1-POUND FLAT.	(48 CANS)	67,048	1,440,303
1/2-POUND FLAT.	(48 CANS)	8,427,932	104,852,697
1/4-POUND FLAT.	(48 CANS)	578,879	4,952,966
1/4-POUND FLAT.	(100 CANS)	146,676	745,192
MISCELLANEOUS, STANDARD CASES .	(48 CANS)	621	10,584
TOTAL		9,152,271	112,830,094


TUNA, ALBACORE

TUNA, BLUEFIN


TUNA, SKIPJACK

PACK OF CANNED MACKEREL, 1950 1/

STATE	STANDARD CASES	VALUE	CAN AND CASE SIZES	ACTUAL CASES	VALUE
MASSACHUSETTS	36,873	$319,617	15 OUNCES NET, TALL (48 CANS)	1,406,267	$7,062,777
MAINE AND MARYLAND	26,683	212,583	15 OUNCES NET, OVAL (48 CANS)	27,267	220,762
TOTAL	63,556	532,200	14 OUNCES NET (24 CANS)	39,633	141,428
CALIFORNIA	1,393,492	6,959,616	OTHER SIZES (CONVERTED TO STANDARD CASES)	5,018	66,849
GRAND TOTAL	1,457,048	7,491,816	TOTAL	1,478,185	7,491,816

1/ INCLUDES THE PACK OF JACK MACKEREL IN CALIFORNIA.

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZED CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT 1-POUND CANS TO THE CASE, EACH CAN CONTAINING 15 OUNCES OF FISH. MACKEREL WERE CANNED IN 42 PLANTS IN CALIFORNIA, 4 IN MASSACHUSETTS, 10 IN MAINE, AND 1 IN MARYLAND.

PACK OF CANNED SHAD, 1950

STATE	STANDARD CASES	VALUE	CAN AND CASE SIZES	ACTUAL CASES	VALUE
OREGON AND CALIFORNIA	14,049	$89,851	15 OUNCES NET (48 CANS)	11,646	$65,821
			8 OUNCES NET (48 CANS)	4,806	24,030
			TOTAL	16,452	89,851

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZED CASES CONVERTED TO THE UNIFORM BASIS OF FORTY-EIGHT NO. 1 TALL CANS TO THE CASE, EACH CAN CONTAINING 15 OUNCES OF FISH. SHAD WERE CANNED IN 4 PLANTS IN OREGON AND 1 PLANT IN CALIFORNIA.

PACK OF CANNED GROUNDFISH FLAKES, 1950

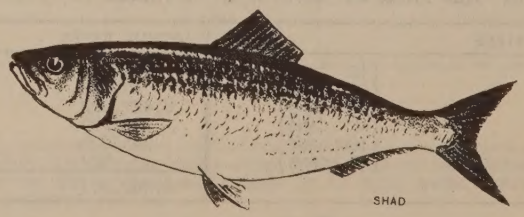
STATE	STANDARD CASES	VALUE
MAINE AND MASSACHUSETTS	18,490	$289,630

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZED CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT CANS TO THE CASE, EACH CAN CONTAINING 14 OUNCES OF FISH. GROUNDFISH FLAKES WERE CANNED IN 5 PLANTS IN MAINE AND 1 PLANT IN MASSACHUSETTS.

PACK OF CANNED ANIMAL FOOD FROM FISHERY PRODUCTS, 1950

STATE	STANDARD CASES	VALUE	CAN AND CASE SIZES	ACTUAL CASES	VALUE
MAINE, NEW YORK, WISCONSIN	594,724	$3,295,893	8 OUNCES NET (48 CANS)	2,219,369	$6,535,929
MASSACHUSETTS	688,120	2,910,906	16 OUNCES NET (48 CANS)	1,598,476	7,266,314
VIRGINIA, MARYLAND, AND WASHINGTON	50,439	192,320	OTHER SIZES (CONVERTED TO STANDARD CASES)		
CALIFORNIA	1,388,110	7,471,751		13,232	68,627
TOTAL	2,721,393	13,870,870		3,831,077	13,870,870

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZED CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT CANS, EACH CONTAINING 16 OUNCES. ANIMAL FOOD WAS CANNED IN 8 PLANTS IN MASSACHUSETTS, 4 PLANTS IN CALIFORNIA, AND 1 PLANT EACH IN MAINE, NEW YORK, VIRGINIA, MARYLAND, WISCONSIN, AND WASHINGTON.



SHAD

PACK OF CANNED FISH ROE AND CAVIAR, 1950

PRODUCT AND NUMBER OF PLANTS	STANDARD CASES	VALUE	STATES OF PRODUCTION AND NUMBER OF PLANTS
ROE:			
ALEWIFE (26)	36,701	$552,803	MARYLAND 3, VIRGINIA 14, NORTH CAROLINA 10.
SHAD (11)	3,723	263,187	MARYLAND 1, WASHINGTON 2, OREGON 6, CALIFORNIA 2.
HERRING (2), MACKEREL (1), MENHADEN (2), DEEP SEA (2)	11,109	164,935	MASSACHUSETTS 2, CONNECTICUT 1, MD. 1, N.CAR. 2.
CAVIAR:			
SALMON (2), STURGEON (1), WHITEFISH (4)	4,826	524,082	NEW YORK 3, WISCONSIN 1.
TOTAL EDIBLE ROE AND CAVIAR	56,359	1,505,007	
SALMON EGGS FOR BAIT (5)	14,023	381,952	WASHINGTON 5.
GRAND TOTAL (49)	70,382	1,886,959	

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZED CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT CANS, EACH CAN CONTAINING 16 OUNCES OF ROE OR CAVIAR.

SUPPLEMENTARY REVIEW OF PACK OF CANNED FISH ROE AND CAVIAR: BY STATES, 1950

STATE	NUMBER OF PLANTS (EXCLUSIVE OF DUPLICATION)	STANDARD CASES	VALUE	STATE CONTINUED	NUMBER OF PLANTS (EXCLUSIVE OF DUPLICATION)	STANDARD CASES	VALUE
MASSACHUSETTS	2	10,591	$156,745	N. CAROLINA	10	5,632	$87,450
CONNECTICUT	1			WISCONSIN	1	1,998	147,458
NEW YORK	3	3,866	453,208	CALIFORNIA	2		
MARYLAND	3	8,546	136,966	WASHINGTON	7	14,223	389,992
VIRGINIA	14	23,104	341,677	OREGON	6	2,422	173,463
				TOTAL	49	70,382	1,886,959

PACK OF MISCELLANEOUS CANNED FISHERY PRODUCTS, 1950

PRODUCT	STANDARD CASES	VALUE	LOCATION AND NUMBER OF PLANTS
FISH:			
FISH CAKES	106,886	$1,260,069	MAINE 3, MASSACHUSETTS 2.
FISH PASTE AND SPREAD (ANCHOVY, HERRING, SALMON AND TUNA)	9,956	193,347	NEW YORK 1, MARYLAND 1, CALIFORNIA 1.
FISH, SMOKED OR KIPPERED:			
SALMON	282	11,000	WASHINGTON 3, OREGON 2.
SHAD	489	13,236	WASHINGTON 1, OREGON 3.
STURGEON	256	13,880	WASHINGTON 2, OREGON 3.
FISH SPECIALTIES (FISH CHOWDER, STRAINED COD FOR BABY FOOD, SAUSAGE OF SALMON, AND TUNA FRANKFURTERS)	30,645	389,942	MAINE 1, MASSACHUSETTS 2, WASHINGTON 1.
MISCELLANEOUS FISH, ANCHOVIES, SALT COD, MENHADEN AND RED DRUM	48,847	484,237	MASSACHUSETTS 1, MARYLAND 1, NORTH CAROLINA 1, CALIFORNIA 2.
SHELLFISH:			
CLAM SPECIALTIES (BISQUE, CAKES, LOAF, AND IN SHELL	1,641	14,640	MAINE 1, MASSACHUSETTS 1, MARYLAND 1, WASHINGTON 1.
CRAB SPECIALTIES:			
COCKTAILS	330	9,448	WASHINGTON 2, OREGON 3.
BISQUE, DEVILED, SMOKED AND SOFT CRABS	2,762	83,996	NEW YORK 1, MARYLAND 1, NORTH CAROLINA 1, SOUTH CAROLINA 1, LOUISIANA 1, WASHINGTON 1.
LOBSTER SOUP AND STEW	4,653	101,910	MAINE 1, NEW YORK 1, LOUISIANA 1.
OYSTER SPECIALTIES:			
SMOKED OYSTERS	2,104	190,245	LOUISIANA 1, WASHINGTON 7, OREGON 2.
SOUP, BISQUE AND STEW	4,118	72,275	NEW YORK 1, MARYLAND 1, LOUISIANA 3, WASHINGTON 2, OREGON 2.
COCKTAILS AND PASTE	88	4,076	WASHINGTON 3, OREGON 1.
SHRIMP SPECIALTIES:			
CAKES, COCKTAILS, SMOKED IN OIL, AND PASTE	665	38,544	SOUTH CAROLINA 2, LOUISIANA 2, WASHINGTON 1, OREGON 3.
SHRIMP IN SAUCES, SOUPS AND STEWS	5,753	102,234	NEW YORK 1, MARYLAND 1, LOUISIANA 4.
SQUID	60,310	250,066	CALIFORNIA 7.
TERRAPIN AND TURTLE MEAT, SOUP, STEW	25,074	279,674	NEW YORK 1, FLORIDA 1, MISSISSIPPI 1, LOUISIANA 4, OHIO 1.
MISCELLANEOUS SHELLFISH (CONCHS, MUSSELS, AND SCALLOPS)	2,840	64,574	MAINE 2, MASSACHUSETTS 1, NEW YORK 1, NEW JERSEY 1.
MISCELLANEOUS SHELLFISH SPECIALTIES (CRAYFISH BISQUE, FROG LEGS NEWBERG, SHELLFISH SOUPS AND STEWS)	1,015	31,022	NEW YORK 1, LOUISIANA 3.
TOTAL	308,714	3,608,415	

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZED CASES CONVERTED TO THE EQUIVALENT OF 48 CANS, EACH CONTAINING 16 OUNCES NET WEIGHT.

PACK OF CANNED CLAMS AND CLAM PRODUCTS, 1950

SPECIES, STATE, AND NUMBER OF PLANTS	STANDARD CASES					
	WHOLE AND MINCED		CHOWDER, JUICE, BROTH AND NECTAR		TOTAL	
	CASES	VALUE	CASES	VALUE	CASES	VALUE
SOFT CLAMS:						
MAINE (9)	200,889	$1,618,535	202,464	$1,128,296	403,353	$2,746,831
RAZOR CLAMS:						
WASHINGTON (3) OREGON (2)	1,199	35,402	-	-	1,199	35,402
ALASKA (16)	45,955	828,675	-	-	45,955	828,675
TOTAL RAZOR CLAMS	47,154	864,077	-	-	47,154	864,077
HARD CLAMS: 1/						
RHODE ISLAND (1) AND NEW YORK (3). NEW JERSEY (4) PENNSYLVANIA (1), MARYLAND (2)	75,573	719,521	79,083	374,531	154,656	1,094,052
	67,099	765,874	786,735	4,944,045	853,834	5,709,919
WASHINGTON (6) AND CALIFORNIA (2)	55,161	407,126	3,943	11,079	59,104	418,205
ALASKA (2)	618	6,805	-	-	618	6,805
TOTAL HARD CLAMS	198,451	1,899,326	869,761	5,329,655	1,068,212	7,228,981
GRAND TOTAL (48)	446,494	4,381,938	1,072,225	6,457,951	1,518,719	10,839,889

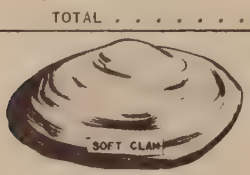
CAN CONTENTS AND NUMBER OF CANS TO CASE	ACTUAL CASES			
	WHOLE AND MINCED		CHOWDER, JUICE, BROTH AND NECTAR	
	CASES	VALUE	CASES	VALUE
TIN:				
3-1/2 OUNCES NET (48 CANS)	16,739	$157,244	-	-
4 OUNCES NET (48 CANS)	57,715	828,530	-	-
5 OUNCES NET (24 CANS)	122,739	692,068	-	-
5 OUNCES NET (48 CANS)	21,380	246,482	-	-
8 OUNCES NET (48 CANS)	56,170	534,430	-	-
8 OUNCES GROSS (48 CANS)	-	-	103,899	$503,003
10 OUNCES NET (24 CANS)	31,054	277,030	-	-
10 OUNCES GROSS (24 CANS)	-	-	144,440	531,687
10-1/2 OUNCES GROSS (48 CANS)	-	-	507,858	3,425,578
20 OUNCES GROSS (24 CANS)	-	-	24,368	67,971
51 OUNCES NET (6 CANS)	40,457	473,505	-	-
51 OUNCES GROSS (12 CANS)	-	-	82,317	511,643
96 OUNCES GROSS (6 CANS)	-	-	3,982	16,527
OTHER SIZES, NET (STANDARD CASES)	132,598	1,162,156	-	-
OTHER SIZES, GROSS (STANDARD CASES)	-	-	239,162	1,347,394
TOTAL	478,852	4,371,445	1,106,026	6,403,803
GLASS:				
MISCELLANEOUS SIZES (STANDARD CASES)	749	10,493	10,371	54,148
GRAND TOTAL	479,601	4,381,938	1,116,397	6,457,951

1/ INCLUDES THE PACK OF SURF CLAMS IN NEW YORK AND NEW JERSEY; PISMO CLAMS IN CALIFORNIA; COCKLES IN ALASKA.

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZED CASES CONVERTED TO THE EQUIVALENT OF 48 NO. 1 PICNIC CANS, EACH CAN OF WHOLE OR MINCED CLAMS CONTAINING 5 OUNCES OF MEAT, DRAINED WEIGHT; AND EACH CAN OF CHOWDER, JUICE, BROTH, OR NECTAR, 10 OUNCES GROSS CONTENT.

SUPPLEMENTARY REVIEW OF CLAM PACK, 1950

PRODUCT	STANDARD CASES	POUNDS	VALUE
WHOLE CLAMS	53,104	796,560	$659,040
MINCED CLAMS	393,390	5,900,850	3,722,898
CHOWDER	1,029,889	30,896,670	6,320,773
JUICE, BROTH, AND NECTAR	42,336	1,270,080	137,178
TOTAL	1,518,719	38,864,160	10,839,889

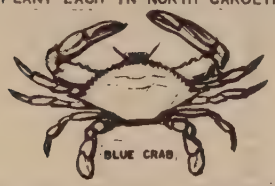


RAZOR CLAM, PACIFIC

PACK OF CANNED CRABS, 1950

STANDARD CASES				ACTUAL CASES		
STATES	SPECIES	CASES	VALUE	CAN AND CASE SIZES	CASES	VALUE
EAST COAST:						
MAINE, NORTH AND SOUTH CAROLINA, GEORGIA, ALABAMA	ROCK AND BLUE	39,332	$884,497	6-1/2 OUNCES NET (48 CANS) . .	79,339	$1,864,276
MISSISSIPPI. . . .	BLUE	7,128	137,741	6-1/2 OUNCES NET (24 CANS) . .	111,764	1,199,477
LOUISIANA.	BLUE	12,498	230,351	13- OUNCES NET (24 CANS) . . .	1,182	27,602
TOTAL.		58,958	1,252,589			
WEST COAST:				16- OUNCES NET (24 CANS) . . .	668	14,800
WASHINGTON	DUNGENESS	23,270	550,162			
OREGON, CALIFORNIA	DUNGENESS	29,335	731,279	3-1/4 OUNCES NET (48 CANS) . .	1,058	15,114
ALASKA	DUNGENESS & KING	25,927	587,239			
TOTAL.		78,532	1,868,680			
GRAND TOTAL. .		137,490	3,121,269	TOTAL.	194,011	3,121,269

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZED CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT CANS TO THE CASE, EACH CAN CONTAINING 6-1/2 OUNCES OF CRAB MEAT. CRAB MEAT WAS CANNED IN 20 PLANTS IN WASHINGTON, 17 IN ALASKA, 8 IN OREGON, 3 PLANTS EACH IN MISSISSIPPI AND LOUISIANA, 2 PLANTS EACH IN MAINE AND CALIFORNIA, AND 1 PLANT EACH IN NORTH CAROLINA, SOUTH CAROLINA, GEORGIA AND ALABAMA.



PACK OF CANNED OYSTERS, 1950

STANDARD CASES			ACTUAL CASES		
STATE	CASES	VALUE	CAN AND CASE SIZES	CASES	VALUE
NORTH CAROLINA, GEORGIA, ALABAMA. .	37,447	$601,871	4-2/3 OUNCES NET (24 CANS) . .	61,484	$472,534
SOUTH CAROLINA.	72,575	1,063,590	4-2/3 OUNCES NET (48 CANS) . .	303,672	4,585,362
MISSISSIPPI	74,420	1,179,746	5-OUNCES NET (24 CANS)	70,940	493,918
LOUISIANA	187,206	2,737,157	6-1/2 OUNCES NET (24 CANS) . .	105,742	976,253
WASHINGTON.	109,035	1,365,947	6-1/2 OUNCES NET (48 CANS) . .	27,960	489,161
OREGON.	11,707	147,924	OTHER SIZES (STANDARD CASES) .	7,388	79,007
TOTAL	492,390	7,096,235	TOTAL	577,186	7,096,235

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZED CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT CANS TO THE CASE, EACH CAN CONTAINING 4-2/3 OUNCES DRAINED WEIGHT OF OYSTER MEATS. OYSTERS WERE CANNED IN 20 PLANTS IN LOUISIANA, 18 IN MISSISSIPPI, 7 IN WASHINGTON, 4 PLANTS EACH IN SOUTH CAROLINA AND OREGON, 2 IN ALABAMA AND 1 PLANT EACH IN GEORGIA AND NORTH CAROLINA.

PACK OF CANNED SHRIMP, 1950

STANDARD CASES			ACTUAL CASES		
STATE	CASES	VALUE	CAN AND CASE SIZES	CASES	VALUE
MISSISSIPPI.	202,006	$3,417,345	4-1/2 OUNCES NET (24 CANS) . .	128,345	$1,080,583
LOUISIANA.	520,601	8,217,833	4-1/2 OUNCES NET (48 CANS) . .	6,897	141,966
SOUTH CAROLINA, GEORGIA, AND ALABAMA	63,644	1,138,168	5-OUNCES NET (48 CANS)	696,209	11,037,819
ALASKA	255	2,273	7-OUNCES NET (48 CANS)	9,587	251,822
TOTAL.	786,506	12,775,619	OTHER SIZES (STANDARD CASES) .	12,913	263,429
			TOTAL	853,951	12,775,619

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZED CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT CANS TO THE CASE, EACH CAN CONTAINING 5 OUNCES OF SHRIMP MEAT. SHRIMP WERE CANNED IN 19 PLANTS IN MISSISSIPPI, 26 IN LOUISIANA, 2 EACH IN SOUTH CAROLINA AND ALABAMA AND 1 IN GEORGIA AND ALASKA.

NUMBER OF PLANTS PRODUCING FISHERY BYPRODUCTS, 1950

PRODUCT	ATLANTIC AND GULF COASTS 1/	PACIFIC COAST AND ALASKA	TOTAL
	NUMBER	NUMBER	NUMBER
OYSTER - SHELL PRODUCTS:			
CRUSHED SHELL FOR POULTRY FEED	14	5	19
SHELL LIME:			
BURNED	2	-	2
UNBURNED	13	4	17
FRESH-WATER MUSSEL SHELL PRODUCTS:			
BUTTONS	13	-	13
CRUSHED SHELL FOR POULTRY FEED	2	-	2
LIME, DUST AND SHELLS	5	-	5
MARINE PEARL-SHELL BUTTONS	24	-	24
ACIDULATED SCRAP, MENHADEN	1	-	1
DRIED SCRAP AND MEAL:			
ANCHOVY	-	1	1
CRAB:			
BLUE	12	-	12
DUNGENESS	-	4	4
HORSESHOE	1	-	1
FUR SEAL	-	1	1
GROUNDFISH (INCLUDING OCEAN PERCH)	11	-	11
HERRING	8	12	20
MENHADEN	36	-	36
PILCHARD	-	76	76
SALMON	-	8	8
SHARK	-	1	1
SHRIMP	39	-	39
TUNA AND MACKEREL	-	45	45
MISCELLANEOUS DRIED SCRAP AND MEAL	20	14	34
BODY OIL:			
ANCHOVY	-	1	1
BLACKFISH	1	-	1
FUR SEAL	-	1	1
HERRING	8	12	20
MENHADEN	36	-	36
PILCHARD	-	77	77
ROSEFISH	2	-	2
SALMON:			
EDIBLE	-	2	2
INDUSTRIAL	-	5	5
TUNA AND MACKEREL	-	45	45
MISCELLANEOUS BODY OIL	6	11	17
LIVER AND VISCERA OIL:			
BURBOT	1	-	1
COD	5	-	5
HALIBUT	2	5	7
HAKE	1	-	1
LINGCOD	-	1	1
MACKEREL	1	-	1
POLLOCK	1	-	1
SABLEFISH	-	1	1
SHARK	2	11	13
SWORDFISH	3	-	3
TUNA	2	4	6
WHALE	1	-	1
VISCERA	-	4	4
MISCELLANEOUS LIVER OIL	1	5	6
AGAR-AGAR	-	2	2
ALGIN	2	-	2
AMINO ACIDS AND VITAMIN CONCENTRATES	-	1	1
CRAB SHELLS (FOR TABLE USE)	1	-	1
FISH SOLUBLES	25	9	34
GLUE	4	1	5
IRISH MOSS	2	-	2
ISINGLASS	1	-	1
KELP PRODUCTS	-	2	2
PEARL ESSENCE	6	-	6
TOTAL EXCLUSIVE OF DUPLICATION	189	133	322

1/ INCLUDES FIRMS IN THE GREAT LAKES AND MISSISSIPPI RIVER STATES WHICH ENGAGED IN THE PRODUCTION OF FRESH-WATER MUSSEL-SHELL PRODUCTS, MISCELLANEOUS FISH MEAL AND BURBOT LIVER OIL.

NOTE:--LISTS OF CANNERS AND MANUFACTURERS OF FISHERY BYPRODUCTS BY INDIVIDUAL COMMODITIES MAY BE OBTAINED FROM THE FISH AND WILDLIFE SERVICE, WASHINGTON 25, D. C.

PRODUCTION OF MARINE-ANIMAL SCRAP AND MEAL, 1950

PRODUCT	ATLANTIC AND GULF COAST 1/		PACIFIC COAST (INCLUDING ALASKA)		TOTAL	
	TONS	VALUE	TONS	VALUE	TONS	VALUE
MEAL AND DRIED SCRAP:						
CRAB:						
BLUE	8,631	$470,350	-	-	8,631	$470,350
DUNGENESS	-	-	198	$8,950	198	8,950
FUR SEAL	-	-	336	32,790	336	32,790
GROUNDFISH ("WHITE FISH") INCL. OCEAN PERCH (ROSEFISH)	26,953	3,604,741	-	-	26,953	3,604,741
HERRING	5,484	596,410	12,313	1,542,366	17,797	2,138,776
MENHADEN	2/103,365	12,864,751	-	-	103,365	12,864,751
PILCHARD	-	-	43,009	5,269,696	43,009	5,269,696
SALMON	-	-	1,401	152,730	1,401	152,730
SHRIMP	1,394	110,360	-	-	1,394	110,360
TUNA AND MACKEREL	-	-	25,377	3,268,594	25,377	3,268,594
MISCELLANEOUS	3/5,994	3/761,835	4/5,258	4/542,355	11,252	1,304,190
TOTAL	151,821	18,408,447	87,892	10,817,481	239,713	29,225,928

1/ INCLUDES A SMALL PRODUCTION OF MISCELLANEOUS MEAL IN MINNESOTA.
2/ A SMALL PRODUCTION OF ACIDULATED SCRAP HAS BEEN INCLUDED WITH DRY SCRAP AND MEAL.
3/ INCLUDES THE PRODUCTION OF COD LIVER PRESS CAKE, FISH POMACE, HORSESHOE CRAB, AND MISCELLANEOUS SCRAP AND MEAL.
4/ INCLUDES THE PRODUCTION OF ANCHOVY, SHARK, AND MISCELLANEOUS SCRAP AND MEAL.

MENHADEN PLANT

PRODUCTION OF MARINE-ANIMAL OIL, 1950

PRODUCT	ATLANTIC AND GULF COAST 1/		PACIFIC COAST (INCLUDING ALASKA)		TOTAL	
	GALLONS	VALUE	GALLONS	VALUE	GALLONS	VALUE
BODY OIL:						
FUR SEAL	-	-	41,689	$40,079	41,689	$40,079
HERRING	332,023	$201,386	2,977,434	2,164,619	3,309,457	2,366,005
MENHADEN	10,209,958	5,866,554	-	-	10,209,958	5,866,554
PILCHARD	-	-	6,188,607	4,693,550	6,188,607	4,693,550
SALMON	-	-	122,138	92,555	122,138	92,555
TUNA AND MACKEREL	-	-	884,434	553,231	884,434	553,231
MISCELLANEOUS	2/446,432	2/291,985	3/229,877	3/137,660	676,309	429,645
TOTAL	10,988,413	6,359,925	10,444,179	7,681,694	21,432,592	14,041,619
LIVER AND VISCERA OIL:						
COD	163,859	227,330	-	-	163,859	227,330
SHARK	(4)	(4)	4/119,324	4/937,360	119,324	937,360
SWORDFISH	385	30,510	-	-	385	30,510
TUNA	(4)	(4)	4/12,714	4/560,220	12,714	560,220
MISCELLANEOUS	5/5,347	5/634,240	6/29,628	6/1,041,430	34,975	1,675,670
TOTAL	169,591	892,080	161,666	2,539,010	331,257	3,431,090
GRAND TOTAL	11,158,004	7,252,005	10,605,845	10,220,704	21,763,849	17,472,709

1/ INCLUDES THE PRODUCTION OF BURBOT LIVER OIL IN MINNESOTA.
2/ INCLUDES THE PRODUCTION OF BLACKFISH, OCEAN PERCH (ROSEFISH) AND UNCLASSIFIED BODY OILS.
3/ INCLUDES THE PRODUCTION OF ANCHOVY, AND UNCLASSIFIED OILS.
4/ EAST AND WEST COAST PRODUCTION COMBINED.
5/ INCLUDES THE PRODUCTION OF BURBOT HAKE, HALIBUT, MACKEREL, POLLOCK, WHALE AND UNCLASSIFIED LIVER OILS.
6/ INCLUDES HALIBUT, LINGCOD AND SABLEFISH LIVER OILS, VISCERA OIL AND MIXED LIVER OILS.

SUPPLEMENTARY REVIEW OF THE MENHADEN FISHERY, 1950 1/

STATE	MENHADEN UTILIZED		DRY SCRAP AND MEAL		OIL		TOTAL
	POUNDS	NO. OF FISH	TONS	VALUE	GALLONS	VALUE	VALUE
NEW JERSEY	136,881,134	204,300,200	14,400	$1,670,762	1,486,205	$944,443	$2,615,205
NEW YORK AND DELAWARE	233,419,290	348,387,000	2/23,424	2/2,875,084	2,437,171	1,271,287	4,146,371
VIRGINIA	161,982,550	241,765,000	17,335	2,095,577	630,597	530,477	2,626,054
NORTH CAROLINA	121,825,430	181,829,000	12,831	1,654,961	679,543	588,719	2,243,680
SOUTH CAROLINA AND TEXAS	48,152,230	71,869,000	4,564	537,601	715,342	337,076	874,677
FLORIDA	20,932,810	31,243,000	2,196	284,591	204,183	106,377	390,968
MISSISSIPPI	69,549,350	103,805,000	6,845	967,424	1,111,551	567,783	1,535,207
LOUISIANA	207,754,940	310,082,000	21,770	2,778,751	2,945,366	1,520,392	4,299,143
TOTAL	1,000,497,734	1,493,280,200	103,365	12,864,751	10,209,958	5,866,554	18,731,305

1/ DOES NOT INCLUDE THE PRODUCTION OF MENHADEN SOLUBLES.
2/ A SMALL PRODUCTION OF ACIDULATED SCRAP HAS BEEN INCLUDED WITH THAT OF DRY SCRAP AND MEAL.

NOTE:--MENHADEN PRODUCTS WERE MANUFACTURED IN 10 PLANTS IN NORTH CAROLINA, 6 IN VIRGINIA, 4 PLANTS EACH IN MISSISSIPPI AND LOUISIANA, 3 PLANTS EACH IN NEW JERSEY AND FLORIDA, 2 PLANTS EACH IN DELAWARE AND TEXAS AND 1 PLANT EACH IN NEW YORK AND SOUTH CAROLINA.

PRODUCTION OF OYSTER-SHELL PRODUCTS, 1950

STATE	CRUSHED SHELL FOR POULTRY FEED		SHELL LIME, UNBURNED		TOTAL	
	TONS	VALUE	TONS	VALUE	TONS	VALUE
NEW JERSEY	5,268	$78,962	1,346	$6,200	6,614	$85,162
PENNSYLVANIA AND VIRGINIA	4,591	71,867	1/12,780	186,183	17,371	258,050
MARYLAND, NORTH CAROLINA AND FLORIDA	62,247	630,235	14,770	57,927	77,017	688,162
LOUISIANA AND TEXAS	253,414	1,668,143	22,462	49,500	275,876	1,717,643
WASHINGTON, OREGON AND CALIFORNIA	18,780	176,689	3,717	20,747	22,497	197,436
TOTAL	344,300	2,625,896	55,075	320,557	399,375	2,946,453

1/ INCLUDES A SMALL QUANTITY OF BURNED LIME IN VIRGINIA.
NOTE:--OYSTER SHELL PRODUCTS WERE PREPARED IN 4 PLANTS IN NEW JERSEY, 3 PLANTS EACH IN PENNSYLVANIA AND VIRGINIA, 2 PLANTS EACH IN MARYLAND, TEXAS, WASHINGTON AND CALIFORNIA AND 1 PLANT EACH IN NORTH CAROLINA, FLORIDA, LOUISIANA AND OREGON.

PRODUCTION OF FRESH-WATER MUSSEL-SHELL PRODUCTS, 1950

STATE	BUTTONS		LIME, POULTRY GRIT, AND CUT SHELLS		TOTAL
	GROSS	VALUE	TONS	VALUE	VALUE
IOWA	4,489,381	$3,703,220	3,132	$51,758	$3,754,978
NEW YORK, PENNSYLVANIA AND MISSOURI	450,809	371,555	-	-	371,555
TOTAL	4,940,190	4,074,775	3,132	51,758	4,126,533

NOTE:--MUSSEL SHELL PRODUCTS WERE MANUFACTURED IN 11 PLANTS IN IOWA, 2 IN NEW YORK, AND 1 PLANT EACH IN PENNSYLVANIA AND MISSOURI. MUSSEL SHELLS PURCHASED DURING THE YEAR AMOUNTED TO 10,676 TONS, VALUED AT $406,858 TO THE FISHERMEN. SHELLS WERE TAKEN IN 7 STATES IN THE MISSISSIPPI RIVER AND GREAT LAKES REGION. THE PRODUCING STATES IN THE ORDER OF THEIR IMPORTANCE WERE: TENNESSEE, WHICH CONTRIBUTED 38 PERCENT OF THE TOTAL QUANTITY; KENTUCKY 27 PERCENT; ALABAMA 15 PERCENT; ARKANSAS 11 PERCENT; INDIANA 7 PERCENT; ILLINOIS AND IOWA 2 PERCENT.

PRODUCTION OF MARINE PEARL-SHELL BUTTONS, 1950 1/

STATE	GROSS	VALUE
CONNECTICUT	1,266,444	$1,909,112
NEW YORK	1,178,469	1,638,560
NEW JERSEY	1,732,267	2,486,713
PENNSYLVANIA AND MARYLAND	1,566,192	3,128,810
IOWA	60,269	75,823
TOTAL	5,803,641	9,239,018

1/ PRODUCED PRINCIPALLY FROM IMPORTED SHELLS.
NOTE:--MARINE PEARL-SHELL BUTTONS WERE MANUFACTURED IN 3 PLANTS EACH IN CONNECTICUT AND NEW YORK, 12 IN NEW JERSEY, 2 IN PENNSYLVANIA, 1 IN MARYLAND, AND 3 IN IOWA.

PRODUCTION OF MISCELLANEOUS BYPRODUCTS, 1950

PRODUCT	UNIT	QUANTITY	VALUE	LOCATION AND NUMBER OF PLANTS
GLUE	GALLONS	168,136	$357,477	MAINE 1, MASSACHUSETTS 3, CALIFORNIA 1.
FISH SOLUBLES	POUNDS	103,726,086	4,461,362	MAINE 3, MASSACHUSETTS 5, NEW YORK 1, NEW JERSEY 1, DELAWARE 1, VIRGINIA 5, NORTH CAROLINA 3, FLORIDA 1, MISSISSIPPI 3, LOUISIANA 1, TEXAS 1, CALIFORNIA 9.
MISCELLANEOUS 1/	-	-	8,389,517	MAINE 6, MASSACHUSETTS 2, VIRGINIA 2, NORTH CAROLINA 1, CALIFORNIA 5.
TOTAL	-	-	13,208,356	

1/ INCLUDES THE PRODUCTION OF AGAR-AGAR, ALGIN, AMINO ACIDS AND VITAMIN CONCENTRATES, IRISH MOSS, ISINGLASS, KELP PRODUCTS, PEARL ESSENCE, AND CRAB SHELLS.

IMPORTS OF CANNED FISHERY PRODUCTS, FISH OIL, SCRAP, AND MEAL - 1946 - 1950

ITEM	1946		1947 1/		1948 1/		1949 1/		1950 1/	
CANNED	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FISH:										
ANCHOVIES:										
IN OIL	3,986,301	$2,976,845	2,621,919	$2,027,039	3,876,128	$2,758,189	5,440,595	$2,856,034	6,199,349	$2,786,057
NOT IN OIL	1,100,928	336,122	451,432	171,320	1,063,306	332,168	823,387	219,227	653,702	129,532
SALMON, NOT IN OIL	55,982	26,224	32,286	12,214	882,482	299,289	917,786	254,863	419,125	112,802
SARDINES:										
IN OIL	19,636,202	7,418,712	15,810,396	5,932,289	22,104,039	8,676,087	16,207,305	6,033,018	22,573,052	7,731,382
NOT IN OIL (INCLUDES HERRING)	10,142,113	3,022,877	7,238,890	1,744,396	9,051,915	2,061,313	6,815,614	1,465,904	9,912,159	1,683,069
TUNA, IN OIL	4,738,538	1,951,664	6,147,898	3,240,643	8,289,442	4,770,263	4,504,907	2,199,214	36,409,547	14,366,739
BONITO AND YELLOWTAIL	-	-	-	-	306,108	121,576	8,053,940	3,106,523	8,135,102	2,632,154
OTHER:										
IN OIL	242,262	123,469	175,816	133,011	353,029	195,697	405,769	245,359	704,005	310,054
NOT IN OIL	1,440,806	417,640	369,765	182,507	681,089	286,614	1,076,849	412,749	3,089,485	831,663
TOTAL CANNED FISH	41,343,132	16,273,553	32,848,402	13,443,419	46,607,538	19,501,196	44,246,152	16,792,891	88,095,526	30,583,452
SHELLFISH, ETC.:										
ABALONE (MAY INCLUDE FRESH AND DRIED AND CANNED PASTE AND SAUCE)	2,039,502	1,071,565	4,116,613	1,681,235	4,512,540	1,633,741	5,224,211	1,768,764	4,865,586	1,621,367
CLAMS:										
RAZOR	42,000	22,338	37,196	18,598	-	-	28,081	13,375	39,112	17,212
OTHER	145,788	74,453	2,110	1,149	32,325	17,727	278,344	124,289	366,788	105,714
CHOWDER, JUICE, ETC.	418	336	8,805	1,490	23,925	4,769	16,510	3,540	17,026	4,307
CRAB MEAT (INCLUDES PASTE AND SAUCE)	15,615	11,541	377,823	302,922	1,336,567	750,872	2,306,794	1,959,604	4,070,337	3,673,416
LOBSTER MEAT:										
COMMON	1,970,821	3,335,956	1,071,701	1,309,892	1,638,910	2,477,435	1,409,585	2,088,586	2,009,611	2,631,153
SPINY	461,804	529,623	142,225	135,747	1,073,012	753,869	696,073	520,955	2,610,412	1,563,552
OYSTERS AND OYSTER JUICE	65,850	66,661	108,958	105,558	157,526	141,911	336,282	303,012	439,226	262,731
OTHER	433,039	241,020	1,199,228	560,416	613,633	323,197	1,223,088	484,953	1,223,286	431,619
TOTAL CANNED SHELLFISH	5,174,837	5,353,493	7,064,659	4,117,007	9,388,438	6,103,521	11,518,968	7,267,078	15,641,384	10,311,071
MISCELLANEOUS	4,597,136	1,859,801	1,225,138	819,561	1,598,649	812,749	1,850,239	989,401	2,404,955	994,710
TOTAL CANNED	51,115,105	23,486,847	41,138,199	18,379,987	57,594,625	26,417,466	57,615,359	25,049,370	106,141,865	41,889,233
OIL AND MEAL UNIT	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
OIL:										
COD OIL:										
INDUSTRIAL GALLONS	436,980	$428,884	589,480	$697,293	422,465	$587,828	663,512	$478,555	848,741	$640,182
MEDICINAL DO	2,859,043	5,451,142	1,520,247	3,195,469	2,037,047	4,697,280	1,496,101	2,843,279	2,055,929	2,754,660
HERRING OIL DO	390,070	148,794	398,035	268,140	2,447,871	2,464,059	2,119,650	1,290,708	1,064,377	529,823
WHALE:										
SPERM DO	121,039	142,194	1,988,854	2,671,761	5,213,704	5,765,676	1,154,323	1,391,514	4,719,056	3,218,823
OTHER DO	102	115	437	2,732	899	11,441	758	1,542	152,467	110,573
OTHER OILS DO	379,799	5,210,429	171,564	4,343,433	686,786	9,699,790	692,175	6,572,346	860,787	4,215,221
TOTAL OIL DO	4,187,033	11,381,558	4,668,617	11,178,828	10,808,772	23,226,074	6,126,519	12,577,944	9,701,357	11,469,282
SCRAP AND MEAL:										
ANIMAL FEED TONS	7,663	766,267	6,578	665,166	35,856	4,431,890	46,985	6,954,997	55,422	6,288,258
FERTILIZER DO	1,248	115,622	1,980	162,125	5,268	609,791	5,198	506,710	8,433	871,644

1/ PRELIMINARY DATA.

PACK OF CANNED FISHERY PRODUCTS: STANDARD CASES - 1921 - 1950

YEAR	SALMON						SARDINES			
	PACIFIC COAST STATES		ALASKA		TOTAL SALMON		MAINE		CALIFORNIA	
	CASES	VALUE	CASES	VALUE	CASES	VALUE	CASES	VALUE	CASES	VALUE
1921 - 1930 AV.	1,147,835	$11,916,541	4,860,058	$33,893,502	6,007,893	$45,810,043	1,677,265	$6,031,760	1,953,474	$6,961,598
1931 - 1935 AV.	984,706	7,301,890	5,699,775	28,513,777	6,684,481	35,815,667	1,042,116	2,974,505	1,719,387	4,519,462
1936	527,574	5,309,438	8,437,603	44,751,633	8,965,177	50,061,071	1,845,860	5,740,454	2,616,530	7,302,273
1937	885,372	8,386,165	6,669,665	44,547,769	7,555,037	52,933,934	1,680,241	4,998,373	2,812,456	8,592,117
1938	472,721	5,728,892	6,806,998	36,636,897	7,279,719	42,365,789	671,635	2,367,045	2,261,678	7,102,358
1939	728,943	7,339,727	5,263,161	34,441,122	5,992,104	41,780,849	2,210,466	7,075,096	3,108,082	9,553,663
1940	535,663	6,575,176	5,069,343	31,474,492	5,605,006	38,049,668	1,117,748	3,736,394	2,945,882	8,975,257
1941	899,589	11,199,317	6,932,040	56,217,601	7,831,629	67,416,918	3,164,787	12,590,958	5,007,154	18,091,873
1942	759,032	13,673,968	5,075,974	48,300,209	5,835,006	61,974,177	2,873,246	12,162,451	3,744,624	15,509,964
1943	275,889	5,110,847	5,428,318	57,824,267	5,704,207	62,935,114	2,505,114	11,104,570	3,354,697	14,352,359
1944	245,588	5,187,136	4,893,059	51,196,140	5,138,647	56,383,276	3,261,984	14,819,803	3,650,919	15,225,919
1945	557,769	7,942,102	4,350,471	44,644,303	4,908,240	52,586,405	2,725,216	12,077,201	3,765,981	15,346,472
1946	560,289	17,003,459	3,949,878	53,157,194	4,510,167	70,160,653	3,276,338	20,275,590	2,977,170	19,895,649
1947	1,329,226	31,969,134	4,312,172	88,666,301	5,641,398	120,635,435	3,013,910	28,310,674	1,652,592	16,538,375
1948	810,075	24,008,466	4,014,891	96,528,730	4,824,966	120,537,196	3,682,392	29,359,114	2,654,149	21,892,893
1949	1,133,325	22,167,812	4,391,591	81,263,168	5,524,916	103,430,980	3,074,523	21,051,675	3,768,212	21,334,825
1950	1,001,819	27,187,060	3,272,643	81,403,511	4,274,462	108,590,571	3,844,164	21,209,033	5,070,805	26,345,609

YEAR	TUNA AND TUNALIKE FISHES						MACKEREL		ALEWIVES		FISH ROE, CAVIAR, AND EGGS FOR BAIT	
	TUNA		TUNALIKE FISHES		TOTAL TUNA AND TUNALIKE FISHES							
	CASES	VALUE	CASES	VALUE	CASES	VALUE	CASES	VALUE	CASES	VALUE	CASES	VALUE
1921 - 1930 AV.	1,017,364	$7,135,011	45,874	$236,069	1,063,238	$7,371,080	1/229,793	1/$979,927	24,066	$77,558	2/68,740	2/$820,057
1931 - 1935 AV.	1,618,327	8,440,215	50,484	205,818	1,668,811	8,646,033	806,664	2,117,791	20,095	48,402	48,284	814,969
1936	2,415,549	13,558,819	265,185	1,156,572	2,680,734	14,715,391	1,236,850	3,542,895	24,140	58,527	59,040	1,028,293
1937	2,929,352	17,914,589	215,149	1,081,190	3,144,501	18,995,779	840,832	2,673,608	54,993	139,585	69,974	996,169
1938	2,512,345	14,143,133	241,798	1,040,503	2,754,143	15,183,636	965,629	2,896,220	52,886	143,558	61,337	786,441
1939	3,417,035	19,147,235	225,916	932,332	3,642,951	20,079,567	889,389	2,588,695	22,882	74,804	64,448	957,875
1940	3,994,470	22,920,463	193,990	801,097	4,188,460	23,727,560	1,421,894	4,101,369	24,486	72,070	61,852	891,814
1941	2,556,922	17,605,146	374,659	1,792,741	2,931,581	19,397,887	935,001	3,503,718	42,156	153,269	76,740	815,514
1942	2,404,908	30,008,885	79,841	733,608	2,484,749	30,742,493	721,189	3,693,082	77,232	399,555	53,190	910,890
1943	2,579,815	30,541,893	116,258	888,296	2,696,073	31,430,189	937,251	5,271,203	112,472	619,213	59,884	1,044,582
1944	3,530,877	40,615,221	29,143	220,896	3,560,020	40,836,117	1,225,060	7,033,997	135,995	793,254	55,677	824,197
1945	4,442,101	46,713,477	89,464	693,974	4,531,565	47,407,451	692,748	4,046,691	131,062	753,769	36,795	948,042
1946	4,596,629	57,342,706	187,855	1,793,117	4,784,484	59,135,823	962,150	7,575,291	193,980	1,180,197	58,192	1,905,638
1947	5,447,554	85,093,328	446,941	5,515,847	5,894,495	90,609,175	1,754,950	15,018,633	139,816	779,150	52,432	1,641,228
1948	6,663,619	107,980,968	374,139	4,631,328	7,037,758	112,612,296	1,281,192	9,850,834	123,134	639,356	50,629	1,473,320
1949	7,130,453	96,039,797	159,867	1,670,528	7,290,320	97,710,325	1,049,927	6,848,930	111,994	469,398	86,459	1,969,998
1950	8,944,598	112,136,363	71,943	693,731	9,016,541	112,830,094	1,457,048	7,491,816	69,568	316,993	70,382	1,886,959

YEAR	CLAM PRODUCTS		CRABS		OYSTERS		SHRIMP		OTHER FISH AND SHELLFISH	TOTAL
	CASES	VALUE	CASES	VALUE	CASES	VALUE	CASES	VALUE	VALUE	VALUE
1921 - 1930 AV.	2/542,612	$2,119,298	1/2,870	$53,908	520,205	$2,524,660	910,491	$4,475,680	1/$2,162,290	$77,965,913
1931 - 1935 AV.	521,573	2,242,896	13,548	109,235	417,985	1,392,686	1,143,677	3,836,331	1,785,685	64,303,662
1936	754,334	2,976,297	14,600	130,753	566,470	2,180,869	1,024,392	4,672,198	2,155,233	94,564,254
1937	773,448	3,013,446	27,394	269,699	759,589	2,932,681	1,434,894	7,130,747	2,498,797	105,174,935
1938	769,665	3,189,628	27,398	260,134	516,901	1,886,476	1,207,553	4,872,393	2,392,211	83,445,889
1939	935,147	3,798,319	32,828	259,756	648,569	2,378,945	1,376,758	5,397,662	2,682,319	96,627,550
1940	927,628	3,778,363	38,740	308,890	690,585	2,526,859	1,116,249	4,318,325	3,695,372	94,181,941
1941	927,343	3,711,029	60,198	547,617	657,045	2,997,114	884,874	4,882,544	4,575,716	138,684,157
1942	782,602	3,791,058	114,548	1,755,065	523,262	3,598,703	963,352	7,347,330	3,112,179	144,996,947
1943	464,794	2,802,420	75,308	1,194,483	345,868	2,821,556	660,436	5,360,647	2,252,456	141,188,792
1944	547,696	3,820,612	86,942	1,361,458	273,556	2,283,429	561,649	4,854,799	4,677,376	152,914,237
1945	900,032	7,391,098	55,514	883,767	225,964	2,029,953	214,971	1,918,633	7,411,089	152,800,571
1946	1,527,789	11,145,047	199,078	4,720,119	390,835	5,249,272	522,130	8,428,735	17,957,441	227,629,455
1947	1,257,650	8,642,235	139,818	2,705,391	410,487	4,259,485	472,366	8,192,004	13,347,135	310,678,920
1948	1,179,774	8,329,639	220,802	4,846,494	357,080	4,777,531	558,870	7,791,313	14,071,493	336,181,479
1949	1,186,060	8,779,018	161,829	3,490,885	452,918	6,525,207	664,721	11,203,325	12,689,339	295,503,905
1950	1,518,719	10,839,889	137,490	3,121,269	492,390	7,096,235	786,506	12,775,619	17,858,766	330,362,853

1/ REPRESENTS 5-YEAR AVERAGE, 1926-1930. 2/ REPRESENTS 4-YEAR AVERAGE, 1927-1930, INCLUSIVE.
NOTE:-- THE STANDARD CASES LISTED ABOVE FOR ALL YEARS REPRESENT THE SAME SIZE CASE USED IN THE INDIVIDUAL PACK TABLES IN THIS BULLETIN.

PRODUCTION OF FISHERY BYPRODUCTS, 1921 - 1950

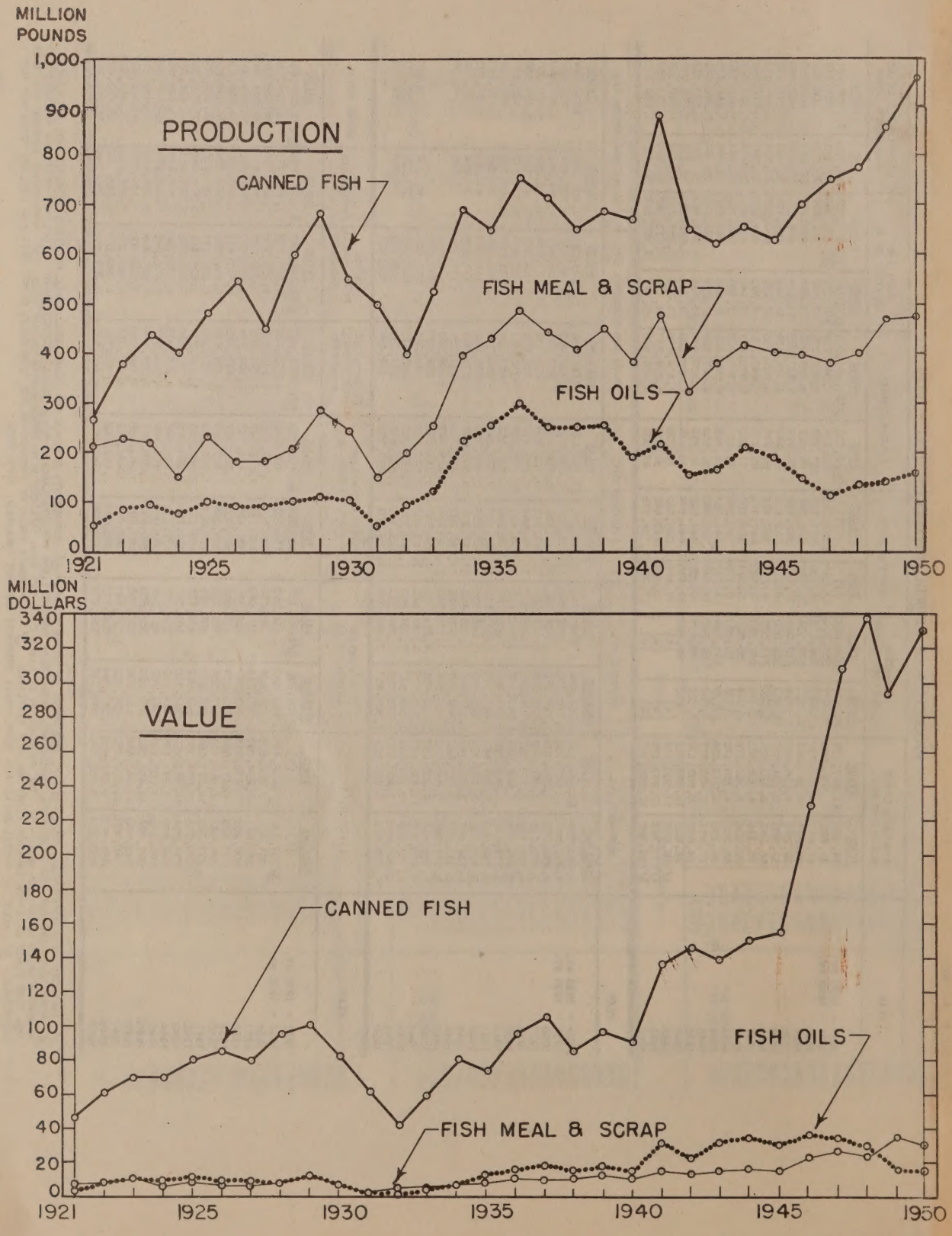
YEAR	MENHADEN DRIED SCRAP AND MEAL		MENHADEN ACIDULATED SCRAP		HERRING MEAL		PILCHARD MEAL		TUNA AND MACKEREL MEAL		OTHER MEAL, DRIED AND GREEN SCRAP	
	TONS	VALUE	TONS	VALUE	TONS	VALUE	TONS	VALUE	TONS	VALUE	TONS	VALUE
1921 - 1930 AV.	34,109	$1,587,175	28,374	$678,844	(1)	(1)	2/22,726	2/$1,241,001	2/3,047	2/$151,334	34,163	$1,638,101
1931 - 1935 AV.	31,488	935,645	15,407	257,799	12,634	$363,085	55,494	1,648,972	3/8,550	3/ 226,263	23,421	827,215
1936	42,411	1,411,710	23,482	359,615	16,780	593,357	121,739	3,968,305	11,847	359,409	27,519	1,004,002
1937	35,801	1,581,219	31,600	618,104	20,460	680,382	89,422	3,325,282	13,066	456,358	29,593	904,190
1938	39,274	1,576,620	21,814	418,936	17,747	592,588	89,927	3,437,892	11,224	409,211	25,230	982,916
1939	52,950	2,224,920	15,853	265,850	18,222	763,419	96,947	4,103,638	12,084	464,578	30,046	1,271,192
1940	56,249	2,423,229	15,520	271,533	9,216	380,134	69,975	3,007,705	14,955	610,007	27,329	1,141,213
1941	75,316	4,008,355	11,029	242,792	12,520	847,116	97,979	5,942,272	8,693	484,886	31,307	1,570,152
1942	50,504	3,362,279	2,594	80,520	5,591	386,059	71,828	5,310,037	7,144	465,481	33,419	2,021,383
1943	66,357	4,766,672	1,555	58,821	9,170	690,280	75,611	5,775,932	7,766	505,199	29,944	1,832,248
1944	69,170	4,913,224	2,922	111,104	14,212	1,044,861	86,196	6,582,600	9,648	644,458	30,999	1,946,775
1945	77,451	5,483,377	1,557	62,200	14,344	1,120,042	60,860	4,643,694	10,273	705,976	36,190	2,390,049
1946	94,622	8,605,118	2,022	78,475	19,505	2,248,942	36,899	5,233,075	13,584	1,743,189	32,989	2,530,624
1947	98,602	10,883,852	632	26,863	18,453	2,649,474	16,715	2,556,038	19,761	2,998,321	32,276	3,265,803
1948	4/104,058	11,560,914	(4)	(4)	17,686	2,065,042	19,076	2,614,616	21,305	2,757,778	37,419	4,090,384
1949	4/113,393	17,813,339	(4)	(4)	5,298	973,445	39,278	6,219,717	19,139	3,073,742	60,072	7,571,899
1950	4/103,365	12,864,751	(4)	(4)	17,797	2,138,776	43,009	5,269,696	25,377	3,268,594	50,165	5,684,111

YEAR	MENHADEN OIL		HERRING OIL		PILCHARD OIL		TUNA AND MACKEREL OIL		WHALE AND SPERM OIL	
	GALLONS	VALUE	GALLONS	VALUE	GALLONS	VALUE	GALLONS	VALUE	GALLONS	VALUE
1921 - 1930 AV.	4,863,899	$1,969,152	2,063,436	$797,716	2,770,878	$1,156,437	2/45,354	2/$13,933	1,403,568	$678,544
1931 - 1935 AV.	3,200,351	582,152	3,116,230	562,980	12,458,879	2,835,610	3/182,452	3/ 38,512	775,424	178,453
1936	4,880,879	1,249,708	3,796,586	954,706	26,131,439	8,336,079	357,914	98,221	4,154,966	1,707,561
1937	3,895,613	1,456,333	5,623,045	2,114,548	15,993,216	6,203,616	222,774	61,514	9,226,289	4,170,001
1938	4,189,129	1,173,667	4,579,565	1,298,837	17,539,567	5,205,337	278,879	81,532	7,741,000	3,184,058
1939	6,005,414	1,624,024	4,847,512	1,157,418	19,996,422	6,078,317	310,661	92,906	3,550,230	1,132,871
1940	5,774,671	1,304,720	2,241,169	606,722	12,626,849	3,761,160	447,326	123,801	2,561,518	952,164
1941	6,034,050	2,829,441	3,041,315	1,563,545	18,125,147	9,879,290	250,517	100,048	34,058	15,907
1942	5,128,760	3,200,129	985,403	646,565	12,508,958	8,067,750	214,932	112,042	47,247	31,733
1943	5,734,668	3,892,142	1,727,441	1,129,446	13,947,295	9,301,593	219,044	131,906	37,964	30,406
1944	6,067,111	3,725,498	2,389,287	1,603,078	18,098,982	11,722,950	317,236	177,774	7,185	5,135
1945	8,335,094	5,656,550	2,663,546	1,786,040	11,852,994	7,926,147	304,143	173,452	-	-
1946	9,758,648	9,033,032	3,532,454	4,292,776	4,866,567	6,843,376	359,437	395,475	-	-
1947	8,473,371	11,425,497	3,875,025	4,144,643	2,103,965	2,677,453	748,017	958,998	66,374	70,007
1948	8,763,939	10,132,179	3,643,537	4,004,250	2,328,572	2,457,858	660,515	622,110	120,089	130,217
1949	8,293,911	3,407,510	723,350	394,297	6,123,140	2,872,532	597,935	265,736	74,950	52,475
1950	10,209,958	5,866,554	3,309,457	2,366,005	6,188,607	4,693,550	884,434	553,231	-	-

YEAR	LIVER OILS		OTHER MARINE-ANIMAL OILS		OYSTER AND MARINE CLAM-SHELL PRODUCTS		FRESH-WATER MUSSEL-SHELL PRODUCTS	MARINE PEARL-SHELL PRODUCTS	OTHER BYPRODUCTS	GRAND TOTAL
	GALLONS	VALUE	GALLONS	VALUE	TONS	VALUE	VALUE	VALUE	VALUE	VALUE
1921 - 1930 AV.	(5)	(5)	5/459,292	5/$222,121	308,823	$2,455,768	6/$5,575,967	7/$4,544,147	$1,001,606	8/$17,948,654
1931 - 1935 AV.	3/109,419	3/$912,476	295,480	114,243	314,802	1,606,093	4,210,128	3,491,872	1,165,471	19,721,516
1936	351,400	2,896,655	228,634	85,536	383,703	1,578,108	4,710,260	4,265,986	1,389,766	34,968,984
1937	347,921	2,204,097	325,811	145,643	382,718	1,612,847	4,791,205	5,079,895	1,398,811	36,804,045
1938	506,203	2,476,343	305,792	106,241	339,425	1,416,557	2,698,879	4,197,503	1,319,250	30,576,367
1939	677,975	4,471,688	363,899	139,845	386,005	1,539,557	2,492,342	4,827,413	1,388,836	34,038,814
1940	790,621	5,088,153	373,384	188,458	395,088	1,479,847	2,489,438	5,399,720	1,326,254	30,554,258
1941	1,233,242	14,871,588	565,298	334,395	438,407	1,985,253	3,037,350	6,236,714	2,851,970	56,801,074
1942	1,000,912	10,034,907	692,892	486,476	466,037	2,582,261	5,064,271	5,528,421	3,516,548	50,896,862
1943	851,854	14,841,970	597,950	485,391	509,285	2,820,986	3,782,028	4,696,593	4,394,653	59,136,266
1944	998,802	13,237,435	444,372	536,911	582,215	3,134,696	4,428,903	4,134,738	5,348,413	63,298,553
1945	804,288	11,202,207	541,787	491,326	507,096	2,573,717	4,844,647	3,286,245	5,864,937	58,210,606
1946	895,884	13,478,590	618,020	658,883	390,433	2,270,853	6,629,578	5,635,904	6,964,960	76,642,850
1947	832,510	11,643,468	633,630	830,596	501,393	3,263,158	8,166,000	7,902,000	7,130,156	80,592,327
1948	740,137	12,507,652	826,822	1,128,541	345,075	2,474,492	5,447,121	8,587,011	9,285,458	79,865,623
1949	834,357	9,845,455	1,047,244	526,972	362,028	2,662,252	3,767,703	6,782,281	12,243,140	78,472,495
1950	331,257	3,431,090	840,136	562,279	399,375	2,946,453	4,126,533	9,239,018	13,208,356	76,218,997

1/ INCLUDED WITH OTHER MEAL, DRIED SCRAP, AND CRUDE OR GREEN SCRAP. 2/ REPRESENTS AVERAGE FOR 1926-1930, SINCE PREVIOUS DATA ARE NOT AVAILABLE. 3/ REPRESENTS AVERAGE FOR 1932-1935, INCLUSIVE, SINCE DATA FOR 1931 ARE NOT AVAILABLE. 4/ A SMALL PRODUCTION OF ACIDULATED SCRAP IS INCLUDED WITH MENHADEN DRIED SCRAP AND MEAL. 5/ THE PRODUCTION OF LIVER OILS HAS BEEN INCLUDED WITH OTHER MARINE ANIMAL OILS. 6/ REPRESENTS AVERAGE FOR 1929 AND 1930 SINCE DATA FOR EARLIER YEARS ARE NOT AVAILABLE. 7/ REPRESENTS VALUE OF PRODUCTION FOR 1930 ONLY, SINCE DATA FOR EARLIER YEARS ARE NOT AVAILABLE. 8/ VALUE OF MUSSEL-SHELL AND PEARL-SHELL PRODUCTS ARE NOT INCLUDED, 1921-1925.

PRODUCTION AND VALUE OF CANNED FISH, FISH MEALS AND OILS, 1921-1950



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